



# Office for Nuclear Regulation (ONR) Site Report for Hinkley Point B Power Station

Report for period 1 January to 31 March 2019

## Foreword

This report is issued as part of ONR's commitment to make information about inspection and regulatory activities relating to the above site available to the public. Reports are distributed to members for the Site Stakeholder Group and are also available on the ONR website (<http://www.onr.org.uk/llc/>).

Site inspectors from ONR usually attend Site Stakeholder Group meetings where these reports are presented and will respond to any questions raised there. Any person wishing to enquire about matters covered by this report should contact ONR.

## TABLE OF CONTENTS

1	INSPECTIONS .....	3
2	ROUTINE MATTERS.....	3
3	NON-ROUTINE MATTERS.....	5
4	REGULATORY ACTIVITY .....	5
5	NEWS FROM ONR.....	5
6	CONTACTS.....	8

## 1 INSPECTIONS

### 1.1 Dates of inspection

1. The ONR site inspector made inspections on the following dates during the report period:
  - 20 – 24 January 2019
  - 18 - 21 February 2019
  - 18 – 21 March 2019
2. In addition, ONR specialist inspectors undertook inspections on the following dates during the quarter:
  - 21 – 22 January 2019 (CO<sub>2</sub> Storage and Distribution System)
  - 20 – 21 February 2019 (Transport)
  - 18 – 21 March 2019 (Conventional Health and Safety)

## 2 ROUTINE MATTERS

### 2.1 Inspections

3. Inspections are undertaken as part of the process for monitoring compliance with:
  - the conditions attached by ONR to the nuclear site licence granted under the Nuclear Installations Act 1965 (NIA65) (as amended);
  - the Energy Act 2013
  - the Health and Safety at Work Act 1974 (HSWA74); and
  - regulations made under HSWA74, for example the Ionising Radiations Regulations 2017 (IRR17) and the Management of Health and Safety at Work Regulations 1999 (MHSWR99).
4. The inspections entail monitoring the licensee's actions on the site in relation to incidents, operations, maintenance, projects, modifications, safety case changes and any other matters that may affect safety. The licensee is required to make and implement adequate arrangements under the conditions attached to the licence in order to ensure legal compliance. Inspections seek to judge both the adequacy of these arrangements and their implementation.
5. In this period, routine inspections of Hinkley Point B covered the following:

#### Modification or experiment on existing Plant

6. This inspection was carried out against Licence Condition 22 (Modification or experiment on existing Plant). The purpose of this licence condition is to ensure that arrangements adequately provide for the classification and control of all modifications and experiments that may affect nuclear safety.
7. The ONR Inspector sampled the licensee's arrangements for controlling modifications to existing plant. I am satisfied that the licensee's arrangements and their implementation in compliance with LC22 are suitable and sufficient. Two formal actions were raised, one relating to the identification and tracking of implementation actions arising from modifications and one relating to control of changes to maintenance documentation. I am satisfied that an IIS rating of **green** against LC22 is merited.

### Carriage of Dangerous Goods (CDG) and Use of Transportable Pressure Equipment Regulations 2009 (as amended) – Class 7

8. This inspection was carried out against Carriage of Dangerous Goods (CDG) and Use of Transportable Pressure Equipment Regulations 2009 (as amended) – Class 7. Class 7 refers to the transport of radioactive material. The purpose of these regulations is to ensure that radioactive material is transported in a safe manner.
9. For Radioactive Material Transport the specialist inspector sampled the licensee's arrangements for management systems, package maintenance and operations, preparation for consignment and training and competence. I am satisfied that the arrangements and their implementation in compliance with Carriage of Dangerous Goods (CDG) and Use of Transportable Pressure Equipment Regulations 2009 (as amended) are suitable and sufficient. No formal actions were considered necessary. I am satisfied that an IIS rating of **green** against Carriage of Dangerous Goods (CDG) and Use of Transportable Pressure Equipment Regulations 2009 (as amended) is merited.

### Confined Spaces Regulations 1997

10. This inspection was carried out against the Confined Spaces Regulations 1997. The purpose of these regulations is to ensure that confined spaces are identified and that work is carried out within them safely.
11. The specialist inspector sampled the arrangements for assessing and managing confined spaces. The specialist inspector also sampled the implementation of these arrangements and concluded that Confined spaces were well managed, but that some confined spaces were over categorised, which the dutyholder has already recognised and is working to address.

### System Based Inspections (SBI)

12. In addition to our compliance inspections based on the conditions attached to the nuclear site licence, ONR inspectors also inspect operating reactors against safety related systems. Each site has a safety case that demonstrates how it operates safely. For advanced gas cooled reactors, each of approximately thirty key systems will be inspected against the claims made upon them by the safety case. The aim is to systematically inspect all the significant safety related systems within a five-year cycle. ONR believes that this will provide more robust assurances of the site's safe operation and how the safety case is being implemented. Each of these system based inspections considers the relevant licence conditions below:

- Licence condition 10: Training
- Licence condition 23: Operating rules
- Licence condition 24: Operating instructions
- Licence condition 27: Safety mechanisms
- Licence condition 28: Examination, inspection, maintenance and testing
- Licence condition 34 (if applicable): Leakage and escape of radioactive material and radioactive waste

13. In this period one system based inspection (SBI) was carried out:

#### CO<sub>2</sub> storage and distribution system (SBI 22)

14. This System Based Inspection (SBI) was performed as the carbon dioxide (CO<sub>2</sub>) storage and distribution system is used as part of the cooling system for the reactor. The aim of the inspection was to confirm that the CO<sub>2</sub> storage and distribution system, with its

associated operating instructions and maintenance schedule, is able to meet the safety case functional requirements. The Inspection concluded that the parts of the CO<sub>2</sub> storage and distribution System that were inspected met the requirements of the safety case and were adequately safe and LCs 10, 23, 24, 27, 28 and 34 were rated as green.

## 2.2 Other work

15. During this reporting period reactor 3 was shutdown for its planned statutory maintenance. Several LC28 compliance inspections have been undertaken by various ONR specialist inspectors which will form part of ONR’s assessment relating to the issue of a licence instrument for consent under LC30(3) for return to service, which is planned for Quarter 2.

## 3 NON-ROUTINE MATTERS

16. Licensees are required to have arrangements to respond to non-routine matters and events. ONR inspectors judge the adequacy of the licensee’s response, including actions taken to implement any necessary improvements. One non-routine matters arose in the period.
  - Reactor 4 and Turbine 8 sustained an automatic trip on the 17<sup>th</sup> February 2019, due to the spurious operation of a valve. The plant was safely shutdown and post trip cooling was established. The main consequence of this issue was an unplanned shutdown leading to a commercial loss. There were no nuclear or industrial safety issues identified. The cause was identified as an incorrect ‘set pressure’ on the valve.

## 4 REGULATORY ACTIVITY

17. ONR may issue formal documents to ensure compliance with regulatory requirements. Under nuclear site licence conditions, ONR issues regulatory documents, which either permit an activity or require some form of action to be taken; these are usually collectively termed ‘Licence Instruments’ (LIs), but can take other forms. In addition, inspectors may take a range of enforcement actions, to include issuing an Enforcement Notice. No licence instruments or enforcement notices were issued during the period.

**Table 1  
Licence Instruments and Enforcement Notices Issued by ONR during this period**

Date	Type	Ref No	Description

Reports detailing the above regulatory decisions can be found on the ONR website at <http://www.onr.org.uk/pars/>.

## 5 NEWS FROM ONR

### 5.1 Enforcement Action

18. A summary of enforcement action is provided below. Further detail is available on our [website](#).

- Improvement notice issued to Sellafield Ltd on 4 January 2019 – requires improvements to be made in its principal contractor arrangements for construction, design and management.
- On 1 February, following ONR’s prosecution, EDF Energy Nuclear Generation Ltd and Doosan Babcock Ltd were fined £200,000 and £150,000 respectively following an incident where a worker fell from height at Hinkley Point B power station in 2017.
- Two improvement notices issued to two transport logistics companies on 4 February following breaches in regulations for the safe transport of radioactive materials.
- Two improvement notices issued to EDF Energy on 20 February following an incident on 19 November 2018 at Heysham 1, which resulted in injury to three EDF Employees.

*\*Although outside the current reporting period, we can confirm that on 2 April 2019, Sellafield Ltd were fined £380,000 following ONR’s prosecution for safety breaches relating to equipment used for the processing of plutonium.*

## 5.2 Regulatory updates

19. Following the introduction of new integrated [Environmental Authorisations Regulations in Scotland](#), the [MOU between ONR and the Scottish Environmental Protection Agency](#) has been updated. The MOU ensures effective cooperation and collaboration in the regulation of nuclear safety, security, radioactive materials transport, nuclear safeguards and environmental protection on nuclear licensed sites and at other sites where both ONR and SEPA have regulatory functions.
20. In February, a new nuclear site licence was granted to [Tradebe Inutec](#) for their Winfrith site in Dorset. A new site licence was required following Tradebe Inutec’s acquisition of buildings and land at the Winfrith site from the Nuclear Decommissioning Authority (NDA) in February 2019.
21. We published a report detailing safety “events” that took place in the UK between 2015-2017 in March. The report details the 56 safety significant events that took place between April 2015 and December 2017 – describing each event, the dutyholder’s response, and the actions taken by the ONR. The full report is available on our [website](#).

## 5.3 Stakeholder Engagement

22. In February, our Chief Nuclear Inspector, Mark Foy and Technical Director, Anthony Hart hosted a webinar which focused on the first Topical Peer Review of 'Ageing management of nuclear power plants and research reactors'. Further details about the webinar are available on our [website](#).
23. We published our [2018 Stakeholder Survey report](#), in February following the survey in October/November last year. Stakeholders from across the sector were invited to take part in the survey with 329 responses received, providing valuable insight into how we are viewed by our stakeholders. The full report is available on our [website](#).
24. On 28 March, we held our NGO Forum in Manchester and were delighted to welcome 15 NGO representatives from 12 organisations. We’ll be making the minutes, agenda, presentations and pre-event briefing papers available on our website over the coming weeks.

## 5.4 Corporate news

25. In February we announced the appointment of Mark McAllister as the new Chair of ONR. Mark will join ONR from 1 April, succeeding Nick Baldwin CBE.
26. We were delighted that our Chief Executive was recognised as Transformational Leader at the Northern Power Women Awards 2019, an event that celebrates the women and men working towards accelerating gender diversity across the Northern Powerhouse. Adrienne won the award in recognition of her work in leading ONR through significant change while, in parallel, driving gender balance.
27. ONR has been recognised for its commitment to equality, diversity and inclusion by gaining accreditation to the National Equality Standards (NES).
28. We are embarking on the final year of our ONR Strategic Plan 2016-2020. So we are now starting to look ahead to what the next five years will bring and beginning to develop our new strategy for 2020-25. We're not doing this alone; we've already started talking to our staff and we are asking our stakeholders for their views to shape our plans. We are really keen to hear from SSG and LLC members and attendees to help us develop our strategic aims and objectives. We'd like to know:
  - What is working well that we should keep doing and/or do more of?
  - What do you think our top regulatory priorities should be in the 2020s?
  - What do you think is missing from our current Strategic Plan that needs to feature in the next one?
29. We intend to consult on our draft strategy in the autumn, but in the meantime, if you'd like to share your comments and suggestions please email us at: [contact@onr.gov.uk](mailto:contact@onr.gov.uk) . We look forward to hearing from you.

## 6 CONTACTS

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